



SEQUENCE LISTING

<110> Popoff, Steven N.
Safado, Faye F.
Owen, Thomas A.
Smock, Steven L.

<120> Osteoactivin Protein and Nucleic Acids Encoding the Same,
Compositions and Methods of Stimulating Bone Differentiation

<130> 71369.262

<140> US 09/943,075
<141> 2001-08-30

<150> US 60/229,006
<151> 2000-08-30

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Tyr Pro Asp His Met Arg Glu Asn Asn Gln Leu Arg Gly Trp Ser Ser
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Asp Glu Asn Glu Trp Asp Glu Gln Leu Tyr Pro Val Trp Arg Arg Gly
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Glu Gly Arg Trp Lys Asp Ser Trp Glu Gly Gly Arg Val Gln Ala Ala
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Val Asn Leu Val Phe Pro Arg Cys Gln Lys Glu Asp Ala Asn Gly Asn	
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Val Ile Val Phe Arg Arg His Gly Arg Ala Tyr Ile Pro Ile Ser Lys	
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Val Lys Asp Val Tyr Val Ile Thr Asp Gln Ile Pro Ile Phe Val Thr	
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Met Tyr Gln Lys Asn Asp Arg Asn Ser Ser Asp Glu Thr Phe Leu Arg	
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Leu Asn Tyr Ser Ala Ile Ser Tyr Lys Trp Asn Phe Gly Asp Asn Thr	
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tac tgt gtg aat ttc act ctg gga gac gat gca agc ctg gcc ctc acc		1557	
Tyr Cys Val Asn Phe Thr Leu Gly Asp Asp Ala Ser Leu Ala Leu Thr			
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agc gcc ctg atc tct atc cct ggc aaa gac cta ggc tcc cct ctg aga		1605	
Ser Ala Leu Ile Ser Ile Pro Gly Lys Asp Leu Gly Ser Pro Leu Arg			
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aca gtg aat ggt gtc ctg atc tcc att ggc tgc ctg gcc atg ttt gtc		1653	
Thr Val Asn Gly Val Leu Ile Ser Ile Gly Cys Leu Ala Met Phe Val			
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at
and

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Ser Asp Glu Asn Glu Trp Asp Glu Gln Leu Tyr Pro Val Trp Arg Arg
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100 105 110 115 120 125 130 135 140 145 150 155 160
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Phe His Thr Leu Gly Gln Tyr Phe Gln Lys Leu Gly Gln Cys Ser Ala
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195 200 205
Glu Val Ile Val Phe Arg Arg His Gly Arg Ala Tyr Ile Pro Ile Ser
210 215 220

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230 235 240
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<212> PRT

<213> Rat osteoactivin

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<213> Mouse

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Gln	Tyr	Pro	Asp	His	Met	Arg	Glu	His	Asn	Gln	Leu	Arg	Gly	Trp	Ser
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Ser	Asp	Glu	Asn	Glu	Trp	Asp	Glu	His	Leu	Tyr	Pro	Val	Trp	Arg	Arg
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Asn	Ile	Val	Tyr	Glu	Lys	Asn	Cys	Arg	Asn	Asp	Leu	Gly	Leu	Thr	Ser
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Asp	Leu	His	Val	Tyr	Asn	Trp	Thr	Ala	Gly	Ala	Asp	Asp	Gly	Asp	Trp
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Glu	Asp	Gly	Thr	Ser	Arg	Ser	Gln	His	Leu	Arg	Phe	Pro	Asp	Arg	Arg
					145		150		155			160			
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Phe	His	Thr	Leu	Gly	Gln	Tyr	Phe	Gln	Lys	Leu	Gly	Arg	Cys	Ser	Ala
					180		185		190						
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Lys	Val	Lys	Asp	Val	Tyr	Val	Ile	Thr	Asp	Gln	Ile	Pro	Val	Phe	Val
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Thr	Met	Ser	Gln	Lys	Asn	Asp	Arg	Asn	Leu	Ser	Asp	Glu	Ile	Phe	Leu
					245		250		255						
Arg	Asp	Leu	Pro	Ile	Val	Phe	Asp	Val	Leu	Ile	His	Asp	Pro	Ser	His
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Phe	Leu	Asn	Asp	Ser	Ala	Ile	Ser	Tyr	Lys	Trp	Asn	Phe	Gly	Asp	Asn
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Thr	Gly	Leu	Phe	Val	Ser	Asn	Asn	His	Thr	Leu	Asn	His	Thr	Tyr	Val
					290		295		300						
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Ile Thr Ile Val Glu Gly Ile Leu Glu Val Ser Ile Met Gln Ile Ala		
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Asp Val Pro Met Pro Thr Pro Gln Pro Ala Asn Ser Leu Met Asp Phe		
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Thr Val Thr Cys Lys Gly Ala Thr Pro Met Glu Ala Cys Thr Ile Ile		
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Ser Gly Thr Tyr Cys Val Asn Phe Thr Leu Gly Asp Asp Ala Ser Leu		
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Tyr Lys Pro Ile Gly Asn Cys Pro Arg Asn Thr Val Lys Gly Lys Gly		
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Leu Ser Val Leu Leu Ser His Ala Lys Ala Pro Phe Phe Arg Gly Asp		
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 50 55 60
 Gly Asp Met Arg Trp Lys Asn Ser Trp Lys Gly Gly Arg Val Gln Ala
 65 70 75 80
 Val Leu Thr Ser Asp Ser Pro Ala Leu Val Gly Ser Asn Ile Thr Phe
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 Ala Val Asn Leu Ile Phe Pro Arg Cys Gln Lys Glu Asp Ala Asn Gly
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 145 150 155 160
 Pro Phe Pro His His Pro Gly Trp Arg Arg Trp Asn Phe Ile Tyr Val
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 Arg Val Ser Val Asn Thr Ala Asn Val Thr Leu Gly Pro Gln Leu Met
 195 200 205
 Glu Val Thr Val Tyr Arg Arg His Gly Arg Ala Tyr Val Pro Ile Ala
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 225 230 235 240
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 245 250 255
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 260 265 270
 Phe Leu Asn Tyr Ser Thr Ile Asn Tyr Lys Trp Ser Phe Gly Asp Asn
 275 280 285
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 305 310 315 320
 Gly Pro Cys Pro Pro Pro Pro Pro Arg Pro Ser Lys Pro Thr
 325 330 335
 Pro Ser Leu Gly Pro Ala Gly Asp Asn Pro Leu Glu Leu Ser Arg Ile
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 Pro Asp Glu Asn Cys Gln Ile Asn Arg Tyr Gly His Phe Gln Ala Thr
 355 360 365
 Ile Thr Ile Val Glu Gly Ile Leu Glu Val Asn Ile Ile Gln Met Thr
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 Asp Val Leu Met Pro Val Pro Trp Pro Glu Ser Ser Leu Ile Asp Phe
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 Ser Asp Pro Thr Cys Glu Ile Thr Gln Asn Thr Val Cys Ser Pro Val
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 Asp Val Asp Glu Met Cys Leu Leu Thr Val Arg Arg Thr Phe Asn Gly
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 Ile Phe Val Thr Val Ile Ser Leu Leu Val Tyr Lys Lys His Lys Glu
 500 505 510
 Tyr Asn Pro Ile Glu Asn Ser Pro Gly Asn Val Val Arg Ser Lys Gly
 515 520 525
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Cm*

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taa 1683

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